

STEREO MOC Status Report
Time Period: 2011:304 - 2011:310

STEREO Ahead (STA) Status:

1. The following Ground System anomalies occurred during this reporting period:
 - On day 302, during the DSS 15 support, real-time telemetry was lost for four seconds in the MOC beginning at 2033z due to the MOC ground software rejecting transfer frames with the private annotation field = U. While it is unclear at this time why these frames were set to 'U', the MOC ground software is being modified to accept this private annotation field setting. This anomaly resulted in the loss of several minutes of SSR data. See DR #N107701 for more information. Since switching to the CCSDS SLE telemetry protocol on day 188, this anomaly has previously occurred on AHEAD on two other occasions; on day 257-0600z for three seconds and on day 272-0429z for four seconds.
2. The following spacecraft/instrument events occurred during this week:
 - On day 307, MOps permanent macro release 1.1.13 was loaded to C&DH RAM. This release added an autonomy rule to protect the main bus voltage during the annual battery conditioning event.
 - The average daily SSR playback volume for Ahead was 4.9 Gbits during this week.

STEREO Behind (STB) Status:

1. The following Ground System anomalies occurred during this reporting period:
 - Concerning the above mentioned SLE telemetry frame on AHEAD having a private annotation field setting = U, for BEHIND, since switching to the CCSDS SLE telemetry protocol on day 188, this anomaly has previously occurred on three occasions; on day 198-2311z for six seconds, on day 206-1744z for five seconds, and on day 295-1530z for three seconds.

- Starting on day 303 through day 305, IMPACT and SWAVES instruments SSR partitions began periodically overwriting due to insufficient track coverage. Specifically, IMPACT overwrote for 0.5 hours beginning at 303-1431z, for 4.7 hours beginning at 304-1450z, and for 7.3 hours beginning at 305-1234z. SWAVES overwrote for 2.6 hours beginning at 304-1650z and for 5.7 hours beginning at 305-1401z. The primary cause of the insufficient track time was sharing the same view with many other higher priority missions.
- On day 305, the first data flow test was successfully conducted between the ESA reference test station, via the DSN, and the STEREO MOC on BEHIND. A minor anomaly with the MOC ground software concerning the private annotation field in the telemetry frames metadata prevented the decommutation of telemetry. This will be corrected before the next data flow test on AHEAD.
- On day 306, during the DSS 63 support, turbo decoder lock was lost briefly beginning at 1227z. This anomaly resulted in the loss of one frame of SSR data. See DR# N107708 for more information.
- On day 306, during the DSS 15 support, turbo decoder lock was lost briefly beginning at 2053z. This anomaly resulted in the loss of one frame of SSR data. See DR# N107709 for more information.
- On day 307, for the DSS 55 support, telemetry lock was lost intermittently beginning at 1432z due to heavy rain at the Madrid complex. This anomaly resulted in the loss of several minutes of SSR data for all instruments. See DR# M106516 for more information.

2. The following spacecraft/instrument events occurred during this week:

- The average daily SSR playback volume for Behind was 4.3 Gbits during this week.